



Salient Features :

- BEML B6D125 Diesel Engine
- Hydraulically Actuated
- Sturdy Construction of booms & track frame
- Heavy duty constant mesh transmission
- Hydraulically actuated counter weights
- Automatic Kickout device for boom
- Pilot operated work attachment

Flywheel Power (net) : 134 kW (180 hp) @ 1850 rpm Max. Lifting Capacity : As per lifting performance curve.

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BP41 PIPE LAYER

Salient Features :

BEML B6D125 Diesel Engine : For sustained power and fuel economy

Hydraulically actuated, oil cooled main clutch

Sturdy Construction : The boom is welded box section and operated by wire cables. Track-roller frames are made of high-tensile steel for maximum rigidity.

Transmission : Heavy duty, constant mesh transmission with helical gears.

Steering Clutches : Hydraulically actuated, self-adjusting oil cooled steering clutches for long life. Steering brakes are also oil cooled.

Commanality of parts with BEML BD80 makes it easy for servicing and replacement of parts besides proven reliability Faster operation due to two raising and lowering speeds. Automatic kick-out device for boom

Hydraulically actuated counterweights for increased stability

Lifting Performance : Maximum lifting capacity as per lifting performance curve to cater to wide range of pipe laying work with joystick control.





Make	BEML	
Model	B6D125	
Туре	Water cooled, 4 cycle overhead valve, direct	
	injection diesel engine	
Net power (fhp)	134 kW (180hp) @ 1850 rpm ISO:9249	
Maximum torque	80.0 kg-m @ 1100 rpm	
No. of cylinders	6, inline	
Bore x Stroke	∞ 125 x 150 mm	
Displacement	0.011 m ³	
Electricals		
Alternator	24 V, 55A	
Starting motor	24 V, 7.5 kW	
Battery	2 x 12 V, 200 Ah	

TRANSMISSION

Transmission Syste	em Direct Drive	
Main clutch type	Wet multiple disc over centre engagement, hand	
	operated with inertia brake & hydraulic booster	
Transmission		
Туре	Helical gear, constant mesh	
Bevel gear	Spiral type, single reduction	۱
Final Drive		
Туре	Spur gear, double reduction	1
Total reduction	17.187	
Gear Shift	5 forward, 4 reverse	
Travel speeds m/se	c (km/h)	
Range	Forward	Reverse
1st	0-0.67 (0-2.4)	0-0.86 (0-3.1)
<u>2nd</u>	0-0.94 (0-3.4)	0-1.25 (0-4.5)
3rd	0-1.44 (0-5.2)	0-1.86 (0-6.7)
4th	0-2.05 (0-7.4)	0-2.67 (0-9.6)
5th	0-2.78 (0-10.0)	
BRAKES		
Туре	Wet contracting band. Foot by efficient linkages for light	

STEERING SYSTEM

Туре	Wet, multiple-disc foot operated with hydraulic
	together with spring type booster
Control	Wet contracting type, foot operated with back-up
	booster
FILT	
Engine	Replaceable cartridge type filter for lubrication as

•	well as for fuel line.
Transmission	One magnetic oil strainer and one replaceable, element bypass filter is provided
Steering & Braking	Magnetic oil strainer is common to transmission, steering & braking system. Separate replaceable element type filter is provided for steering & braking
Hydraulic System	Magnetic plug & replaceable element type filter is provided.

MASS

Shipping Mass (Basic tractor with lubricating hydraulic, cooling systems and 10% of fuel capacity) 29,870 kg

STANDARD EQUIPMENT

Hook & Boom winch 5.5m boom with cables Counter weight mechanism Hydraulic track adjusters Adequate lighting system Under guards

OPTIONAL ATTACHMENTS

Insulated Canopy Safe Load Indicator System Long Boom (6.2m) Emergency Free Fall Winch

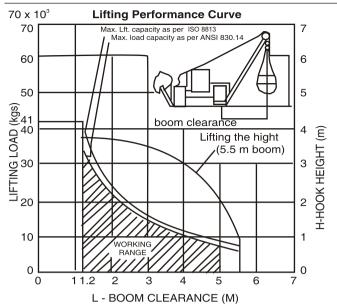
HYDRAULIC SYSTEM

Hydraulic Pump (winch)	
Туре	Gear pump	
Capacity	335.5 l/min	
Relief pressure	13.73 MPa (140kg/cm²)	
Hydraulic pump (Cou	nter weight)	
Туре	Tandem pump	
Capacity	85 //min	
Relief pressure	13.73 MPa (140kg/cm ²)	
Hydraulic Cylinder		
Туре	Double acting piston	
Counter weight	2 cylinders	
Bore x Stroke	∅ 90 x 525 mm	

DIMENSIONS & OPERATING DATA

4890 mm
3425 mm
2935 mm
See chart
1.22 m to 5.5 m
1.22 m to 6.2 m
6.5 m/min
13.0 m/min
6.5 m/min
13.0 m/min
Welded box section and operated by
wire cables
5500 mm (Optional 6200 mm)
550 kg (585 kg)
Hydraulically operated, two speed, reversible
Powered continuously by hydraulic pump
Automatic braking system
Built in planetary system
⊘ 323.85 x 431.8 mm
[⊘] 323.85 x 431.8 mm
∞ 18 mm x 85 m
∞ 18 mm x 60 m
Segmented plate type, Hydraulically actuated
4680 kg ± 6%
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8





Lifting Performance (as per ISO 8813)

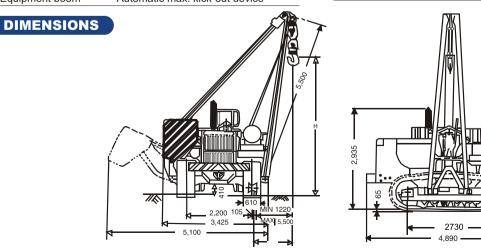
Based on the firm level ground operation and standard counter weight fully extended 5.5 m boom, 18 mm dia wire rope 21400 kg minimum breaking strength 6-part load line, 4-part boom line.

UNDER CARRIAGE

Suspension	Non-Oscillation type equalizer bar		
Track Frame	Box section, high tensile strength steel construction		
Track Rollers	6 nos. each side		
Carrier Rollers	2 nos. each side		
Track Shoes	38 nos. each side		
Track Pitch	2200 mm		
Grouser-Height	65 mm		
Shoe width	610 mm (std)		
Ground Pressure	85.3 kPa (0.87 kg/cm ²)		
Ground contact area	3.330 m ²		
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COOLANT & LUBRICANTS CAPACITY (Refill)

System	Litres	
Cooling System	65	
Crank case	34	
Fuel Tank	350	
Main Clutch	25	
Transmission, bevel gear torque converter &		
steering	75	
Final drive (each side)	36	
Hydraulic Tank	110	



Material and specifications are subject to change without notice, Illustrations may include optional equipment & accessories



RIPE

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TECHNICAL SPECIFICATIONS

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14	

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